



***Community Power Corporation***

Energy Systems for Sustainable Power

# **Modular Biopower Systems**

**A new, renewable energy alternative  
for on-site  
power, heat, cooling & liquid fuels**

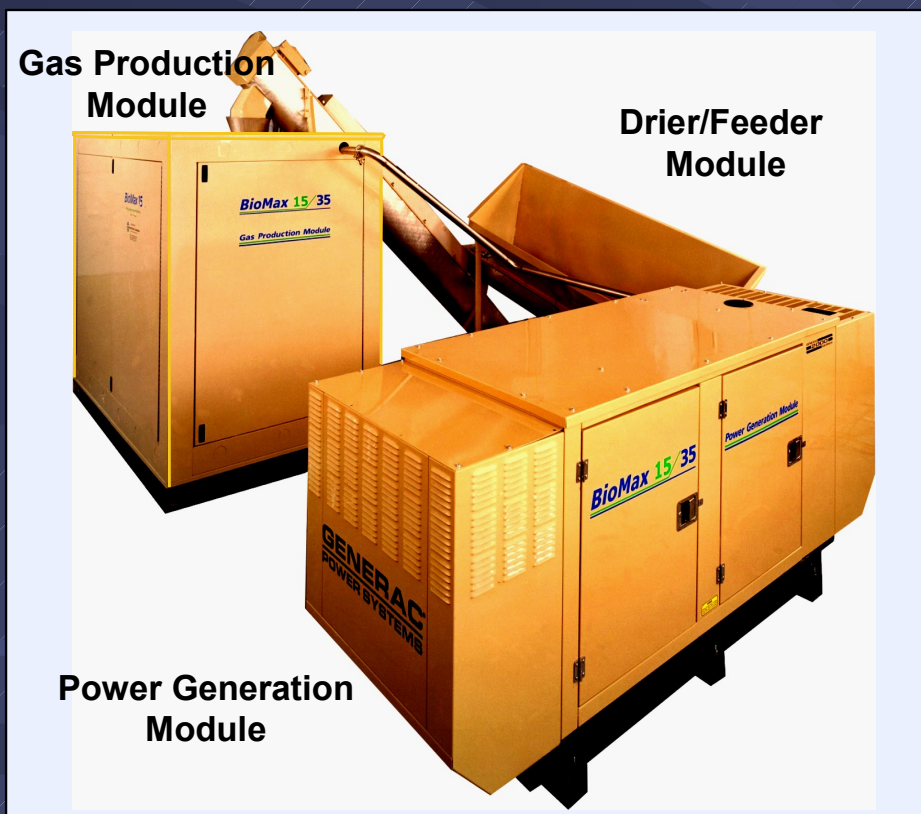
By

**Robb R. Walt**

President

# CPC Products: BioMax 25 to BioMax 100 (kWe)

## Modular Biopower Systems for Farms, Enterprises, Schools, Rural Communities



- ✓ Converts on-site biomass residues to power, heat, & cooling
- ✓ Proven, in-field performance at multiple sites in USA and Asia since 2000
- ✓ **Clean & Green** power and heat
- ✓ No smoke. No smell. No Water. No toxic wastes
- ✓ Responds directly to US energy crisis
- ✓ Ready for rapid commercialization
- ✓ Cost: \$2,500 to \$4,000 / kWe

# CPC's BioMax: A Versatile, Bioenergy Fuel-Gas Generator

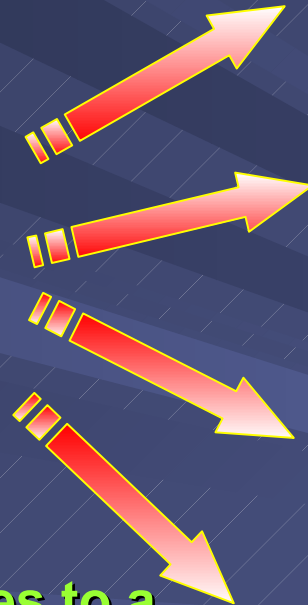
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BioMax  
(Gasification Module)



Converts ag/forest residues to a gas\* capable of fueling a variety of power generation and heating/cooling technologies

**Fuel-Gas**



**RUNS:**

**IC Engines**

**Stirling  
Engines**

**Fuel Cells**

**Microturbines**

**Furnaces  
Driers & Chillers**

# Fuels for BioMax From: Forest, Farm, & Community

## Proven

- All kinds of wood
- Any kind of biomass pellet
- Plastic utensils, bags, etc.
- All orchard prunings
- Pits (olive, peach, cherry)
- Corn (tainted)
- Most nut shells & hulls
  - coconut shells
  - pecan shells
  - walnut shells
  - nutmeg shells
  - pistachio shells
  - palm oil shells
  - apricot hulls

## Potential

- Cubed grasses
- Cubed ag residues
- Dried cakes
  - ethanol
  - canola

### New Opportunity:

**Take the power system  
to the fuel .....  
instead of taking the fuel  
to the power system**

**Next: Take the refinery  
to the fuel .....  
Instead of taking the fuel  
to the refinery**



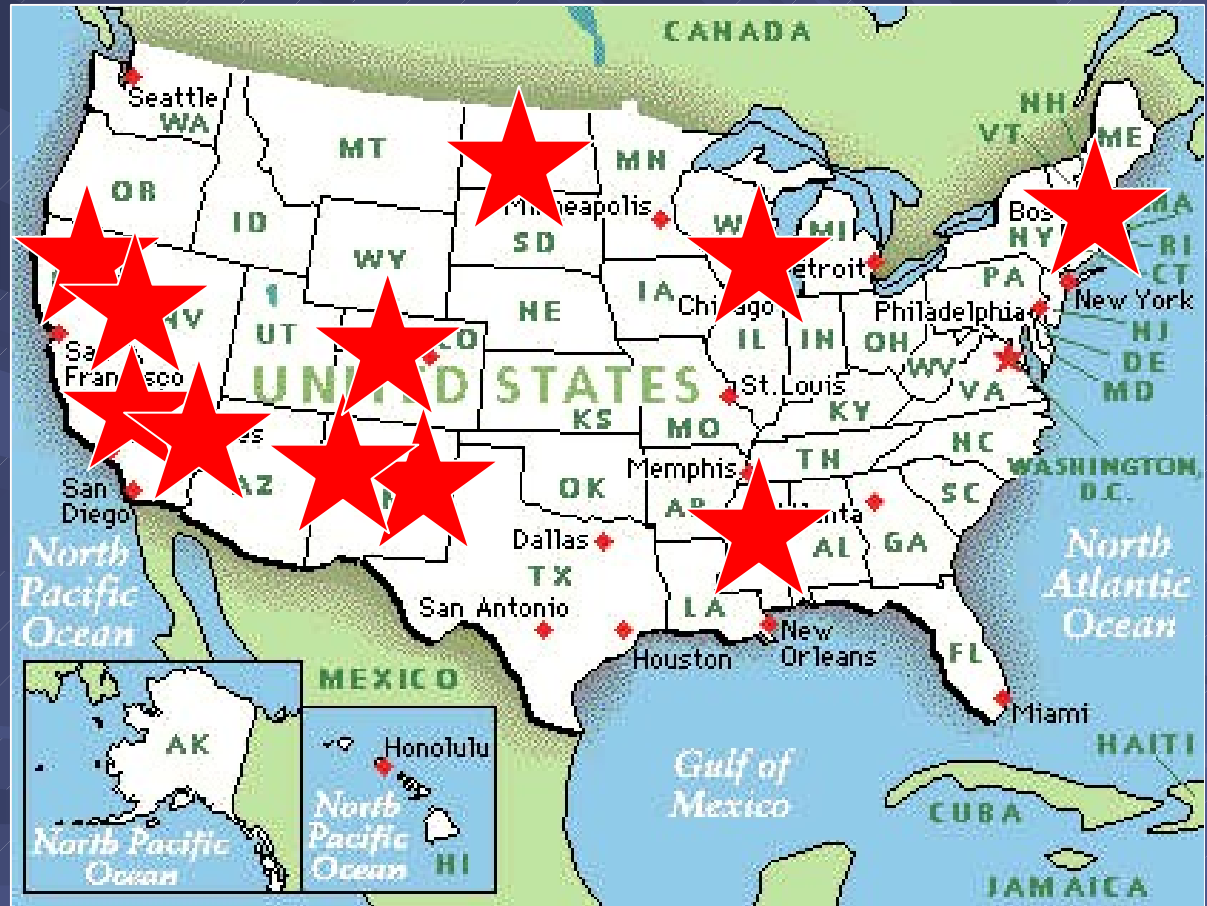
# Unique Features: CPC's BioMax

- ✓ World's first and only fully automated modular biopower technology ( can be operated over Internet)
- ✓ Only renewable energy technology that is fully despatchable at all times (unlike solar or wind)
- ✓ World's first environmentally friendly biopower system without any toxic or hazardous effluents (clean & green)
- ✓ Lowest capital cost and LC cost of energy of any small renewable energy power system BioMax is 1/10 the cost of an energy - equivalent PV system .... and BioMax also delivers heat!
- ✓ Patents pending (IP in gasifier, heat exchanger, filter, controls)
- ✓ Designed for high volume, low cost manufacture

# CPC's Line of BioMax Is Field Proven (Beginning in 2000)

## 11 Sites

- Zuni, NM
- Ruidoso, NM
- Walden, CO
- Mt. Shasta, CA
- Big Bear Lake, CA
- Truckee, CA
- Madison, WI
- Starkville, Ms
- Grand Forks, ND
- Mt. Wachusett, MA
- Miami, FL





# ***Community Power Corporation***

Energy Systems for Sustainable Power

## **Mission**

Develop and supply environmentally friendly, fully automated, modular biopower systems for the global distributed generation and alternative power and energy markets.

**Need....** to rapidly grow CPC as a global supplier of BioMax products:

- ✓ Capital:      **Up to \$5M**
- ✓ Uses:        **Establish manufacturing operation**  
                 **Add key staff**  
                 **Generate sales**  
                 **Expand distribution**

# CPC Overview

Established: 1995 C Corp. (Colorado)

Founders/Owners: Robb Walt and Art Lilley (+ CPC employees)

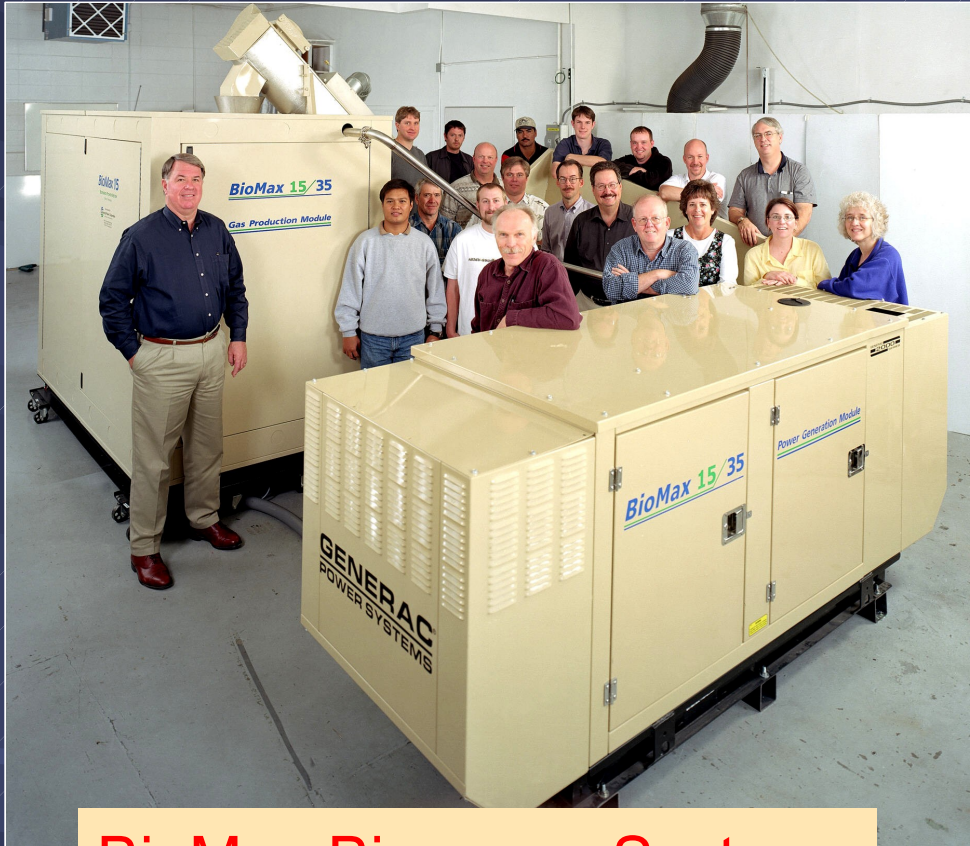
Background of Owners: Business Managers / Engineers – Each with 20+ years technology/business managers with Westinghouse, World Bank, & US Government

Staff: 20 (4 managers, 2 scientists, 7 engineers, 1 admin, 6 tech.)

Products: Modular Biopower Systems **(on-site power, heat, & liquid fuels)**

Sales: 2002: \$1.5M    2003: \$2.1M    2004: \$3.0M    2005: \$4.0M

# CPC's BioMax Team



**BioMax Biopower Systems**

**Company Management:**  
**Robb Walt & Art Lilley**

20 Years (each) Sr. Business  
Management & Technology  
Development for Westinghouse

**Product Team – 18**

**Chief Scientist/Engineer:** Jim Diebold

**Development:** King Browne

**Senior Engineers:** 3

**Engineers:** 6

**Technical staff:** 6

**Administrative:** 1



# CPC's New Product Development Facility

8110 Shaffer Parkway Littleton, Colorado USA



- 18,500 SF facility designed to CPC's specifications
- State-of-the-art mechanical design capability
- Full instrumented labs for gasification and liquid fuels
- Fabrication facility for rapid prototyping and final assembly
- Fully instrumented tests bays for up to three BioMax systems

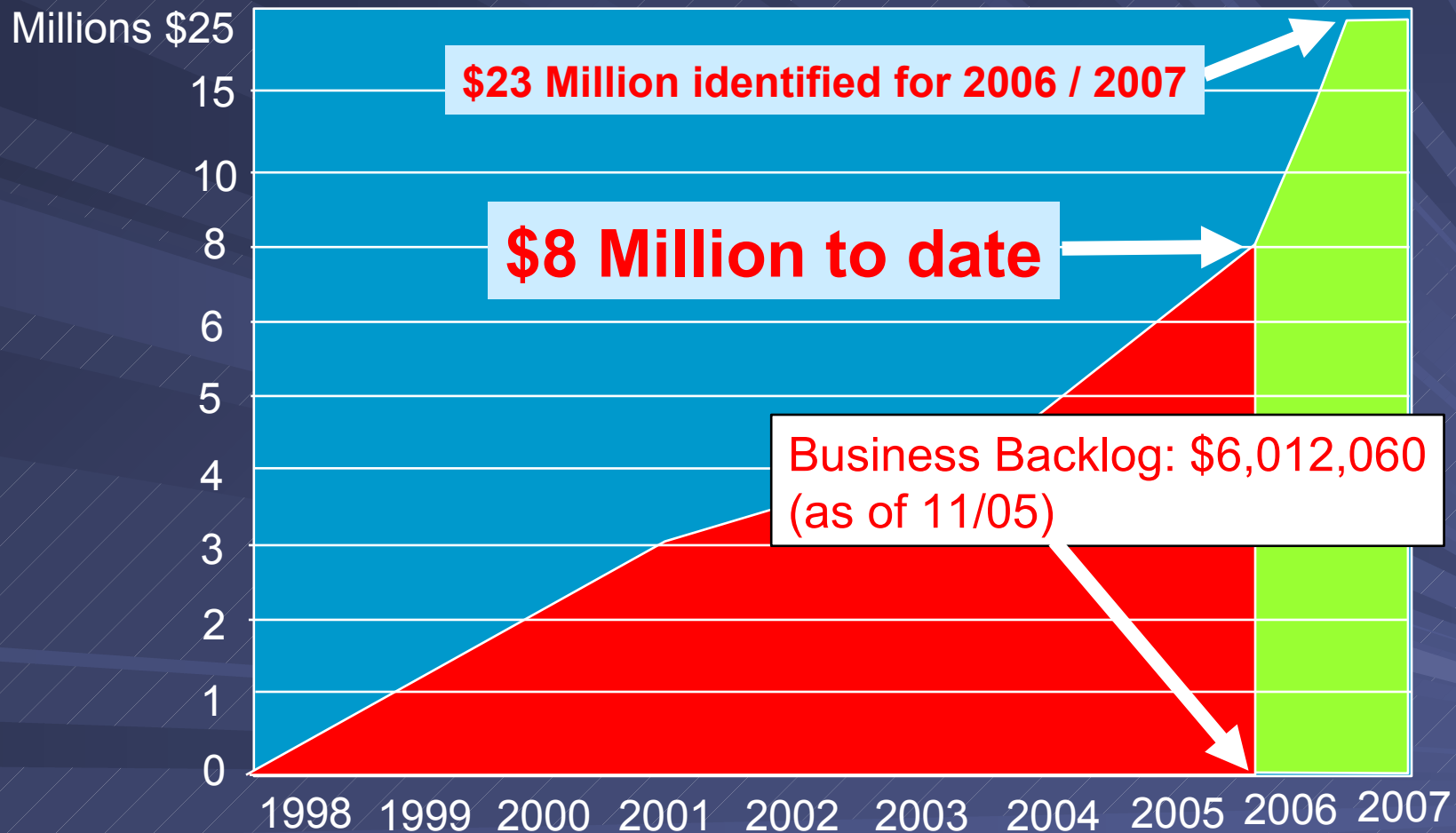


# BioMax Development Partners



# CPC R&D and Project Funding

(BioMax 5, 25, 50, 75, 100 + Biorefineries)



# Trends That Drive CPC's Modular Biopower Business:

- (1) High and increasing cost of fossil fuels (NG, propane, diesel)
- (2) High cost and more requirements for waste disposal (All sectors)

CPC's BioMax systems respond directly to each of these powerful market forces.

- gasoline, and NG) (now 60% and increasing)
- (5) Growing realization that we must achieve energy independence (Rapidly growing public support for renewable energy, conservation, alternative fuels, net metering)
- (6) Need for new energy conversion and generation technologies (Alternative energy stocks are a hot item)

# Mega-Markets for BioMax Green Machines™

- **Farms** (Every farm = energy source now teamed with John Deere)
- **Rural Communities** (India, China, Russia, Japan, etc.)
- **Rural Enterprises** (Small businesses need access to electricity & heat)
- **Military** (Energy from biomass for remote base deployments)
- **Trash-to-Energy** (Zoos: San Diego, New York, Denver, Dallas)
- **Emergency Power** (Disaster relief: Katrina, terrorist attack, black outs, etc.)



\$4B

# Customer Value Proposition:

CPC's BioMax Modular Biopower systems offer customers a unique opportunity to:

- ✓ **Avoid high and increasing cost of disposal of on-site biomass residues**     **Your residues become a NEGATIVE cost fuel!**
- ✓ **Off-set high cost of diesel, natural gas, propane, and oil**  
**In Alaska, payback can be less than one year**
- ✓ **Generate new revenue stream through sale of clean & green power**  
**Selling REC's provide premium for power from BioMax**
- ✓ **Reduce dependency on fossil fuels**
- ✓ **Reduce dependency on others for power and heat**
- ✓ **Using clean and green renewable energy can be positive marketing**
- ✓ **Achieve much lower cost and more reliable source of renewable energy than from PV or wind**

# We Have A Solid Competitive Edge

## Competition

## Competitor

Other Small  
Biopower

Ankur Co. (India)  
Not modular,  
Not automated,  
Water gas cleanup

Diesel, Natural  
gas/propane  
gensets

Genset companies  
Utility/propane dealer,  
e.g., Generac, Kohler

Photovoltaics

Systems Integrator  
e.g., PowerLight

Small Wind

Local Dealer/Distributor

## **BioMax** **Advantage**

**Modular**  
**100% automated**  
**Dry gas cleanup**  
**Clean & Green**

**80% lower fuel price**  
**Clean emissions**  
**Not fossil fuel dependent**  
**Fuel cost stay in community**

**60% lower cost of energy**  
**Continuous power**  
**1/10 of capital cost (energy)**

**Despatchable**  
**Also provides heat**



# CPC's Business Here & Now

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Current backlog: \$6,000,000

CPC is cash positive

Current orders: 17 BioMax systems

# CPC's Business Here & Now

Market	Current Customers	Contracts	Total Contract Value	Number of BioMax Ordered
Military	<b>US Army</b>	4	\$1,527,000	4
Federal Government Agencies	<b>US DOE USDA DIA FEMP</b>	4	\$4,476,000	7
State Governments	<b>CEC</b>	2	\$875,000	2
Universities	<b>FIU, MWCC</b>	2	\$154,000	2
Private Sector	Farms	1	\$150,000	1
	Zoos	1	\$300,000	1
	Rural Enterprises			
	International			
		<b>14</b>	<b>\$7.5M</b>	<b>17</b>

# Priority New Business Targets: 2006 to 2010

Customer	Application	Value	Number of BioMax	Key Relationships
State of Alaska	Rural Electrification	\$17,500,000	50	AVI
Alaska Village Initiative				Alaska Eng. Auth.
US Forest Service (USDA & USDOE)	In Forest Processing	\$3,000,000	10	USFS
US Military	Field Deployments	\$30,000,000	100	NATICK
US Government	Disaster Relief	\$15,000,000	75	USDOE &
	FEMP, Etc.	\$10,000,000	50	USDA
On Farm	Green Power, Heat	\$12,500,000	50	John Deere, Inc
	Liquid Fuels			Growmark, Inc
		<b>\$88 M</b>	<b>335</b>	

**SALES**

**SYSTEMS**

**In 5 Years**

# CPC's Major Challenge:

- ✓ Manufacture and deliver product to meet demand
- ✓ Manage Growth

# CPC's Growth Milestones and Sales

2006

**\$5M Investment**

(~500 Units)

**\$100 M**

**\$60 M**

**\$30 M**

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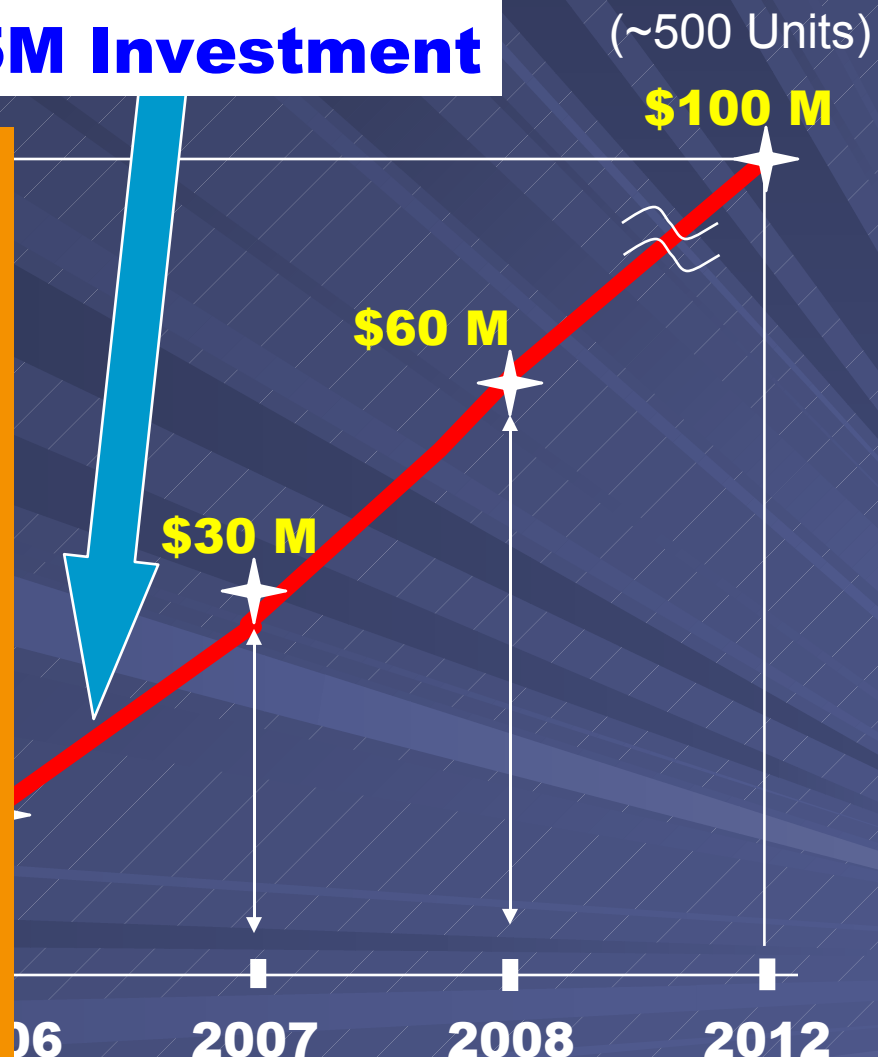
2007

2008

2012

## USE OF FUNDS:

- Augment management team to achieve and manage growth
- Achieve rapid commercialization of field proven BioMax line
- Design for manufacturability
- Achieve full-scale manufacturing
- Expand sales / service force
- Promotion + Increase order backlog
- Continue aggressive R&D
- Position CPC for Trade Sale



# Why You Should Invest In CPC:

- CPC is positioned for rapid growth – CPC is cash positive  
(Leverage over \$8M in R&D. \$23M new contracts projected 2006-7)
- New and powerful market forces are driving CPC's growth:  
**market pull, not technology push**
- CPC has long-established relationships with R&D funding organizations and major customers: USDOE, USDA, USDOD, Etc.
- CPC is world leader in “clean and green” small bioenergy systems  
**modular biopower and modular biorefineries**
- CPC has built a reputation for innovation and excellence
- CPC has a field-proven, product line positioned for rapid commercialization
- High potential for acquisition and/or successful public offering



# Interested?

I would love to provide you with more information about Community Power Corporation!

Please contact me today, or follow-up by:

Email: [rwal@gocpc.com](mailto:rwal@gocpc.com)

Tel: 303-933-3135

Website: [www.gocpc.com](http://www.gocpc.com)